## PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	172-190253 ACTION (F		see Notific (Form PC) below.	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below					
International application No. PCT/US03/20058		International filing date (day/month/year) (Earliest) Priority Dat		(Earliest) Priority Date (day/month/year) 27 June 2002 (27.06.2002)					
Applicant TELLABS OPERATIONS, INC.									
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of 3 sheets.									
		by a copy of each prior art docum	ent cited in	this report.					
<ol> <li>Basis of the Report         <ul> <li>With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ul> </li> </ol>									
$\succeq$	the international search was carried out on the basis of a translation of the international application furnished to this								
b.	Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:								
<u>_</u>	contained in the international application in written form.								
<u> </u>	filed together with the international application in computer readable form.								
	furnished subsequently to this Authority in written form.								
<u> </u>	furnished subsequently to this	s Authority in computer readable for	m.						
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
<u>_</u>	the statement that the information furnished.	ation recorded in computer readable	form is ider	ntical to the written sequence listing has been					
2.	Certain claims were found u	insearchable (See Box I).							
3	Unity of invention is lacking	(See Box II).							
4. WIL	regard to the title, the text is approved as submit	and have han a south a sea							
H		* *							
	the text has been established t	by this Authority to read as follows:							
5. With	regard to the abstract,								
	the text is approved as submit	ted by the applicant.							
$\boxtimes$	the text has been established,		uthority as i	it appears in Box III. The applicant may, submit comments to this Authority.					
6. The	figure of the drawings to be public	shed with the abstract is Figure No.	<u>1</u>						
$\boxtimes$	as suggested by the applicant.			None of the figures					
Ľ	because the applicant failed to	suggest a figure.							
	because this figure better chara	acterizes the invention.							
		•							

Form PCT/ISA/210 (first sheet) (July 1998)

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/20058

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)						

Packets having at least one cell switched using input queues (101), output queues (106), a switch fabric (103), and a controller (108). Each input queue (101) stores cells to be switched, and each output queue (106) stores switched cells. The switch fabric (103) couples the input queues (101) to the output queues (106) and has memory. The switch fabric (103) stores cells moved from the input queues (101) to the switch fabric and stores cells based on the output queues. The controller (108) couples to the input queues and the switch fabric (103) and determines input priorities for cells moving from the input queues (101) to the switch fabric (103) and output priorities for cells moving from the switch fabric (103) to the output queues (106).

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/20058

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A. CLASSIFICATION OF SUBJECT MATTER IPC: H04L 12/18( 2006.01),12/56( 2006.01)								
USPC: 370/412,413,414,415,416 According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIEI	LDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols) U.S.: 370/412,413,414,415,416								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) IEEE								
C. DOC	UMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where	appropriate, of the relevant pass	ages Rele	vant to claim No.				
X	"Delay-Bound Guarantee in Combined Input-Output GLOBECOM 2000, 01 December 2000 (01.12.2000)	t Buffered Switches" (CHAO).	IEEE 1-3.	8, 9, 12, and 17-19				
Y	Section V	,,, pg 515 52 i, 1 iguio 5,		10, 11, and 13-16				
Y	"Matching Output Queueing with a Combined Input/Output-Queued Switch" (CHUANG), IEEE Journal on Selected Areas in Communications, 30 June 1999 (30.06.1999), CCF Insertion Policy section, pg 1034							
Y	"CIXB-1: Combined Input-One-Cell-Crosspoint Buffered Switch" (ROJAS-CESSA), 2001 IEEE Workshop on High Performance Switching and Rouing, 31 May 2001 (31.05.2001), Figure 1, pg 325							
Y	"Service Disciplines for Guaranteed Performance Se (ZHANG), Proceedings of the IEEE, 31 October 199	orks" 1378	15 and 16					
Further	documents are listed in the continuation of Box C.	See patent family a	nnex.					
·	ecial categories of cited documents:  defining the general state of the art which is not considered to be of relevance	"T" later document published date and not in conflict to principle or theory under	with the application but c	ling date or priority ited to understand the				
E" earlier application or patent published on or after the international filing date		"X" document of particular re considered novel or cann	not be considered to invo	ention cannot be lve an inventive step				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		when the document is taken alone  'Y"  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined						
O" document referring to an oral disclosure, use, exhibition or other means		with one or more other s obvious to a person skill		nbination being				
'P" document priority dat	oublished prior to the international filing date but later than the e claimed	"&" document member of the	same patent family					
Date of the act	Date of the actual completion of the international search  Date of mailing of the international search report							
3 December 2	2007 (13.12.2007)	03 JAN ZUUB						
	ling address of the ISA/US	Authorized officer						
	Stop PCT, Attn: ISA/US ussioner of Patents	Brian T. O'Connor						
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m PCT/ISA/210 (second sheet) (July 1998)								